

FOREST INSECT AND DISEASE MANAGEMENT UNIT
U.S. FOREST SERVICE
DORAVILLE, GEORGIA

REPORT OF AERIAL DETECTION SURVEY

LAND OWNERSHIP OR SURVEY AREA: OZARK NATIONAL FOREST (SYLAMORE,
MAGAZINE MOUNTAIN, AND PART OF
THE BOSTON MOUNTAIN RANGER DISTRICTS)

STATE: ARKANSAS

AREA WITHIN SURVEY BOUNDARY: 417,200 ACRES

PERCENT COVERAGE: 25%

DATE: 7/27/78

AIRCRAFT: CESSNA 182

CREW: P.A. MISTRETTA, B.I. HAMMOND

REPORT PREPARED BY: P.A. MISTRETTA

SURVEY OBJECTIVES: TO DETECT DAMAGE DUE TO THE ACTIVITY OF
INSECTS, DISEASES OR OTHER AGENTS ON THE OZARK NATIONAL FOREST.

SURVEY RESULTS

SPOT SIZE CLASS					
RANGER		2-5	6-25	26+	TOTAL
DISTRICT	SINGLES	SPOTS:TREES	SPOTS:TREES	SPOTS:TREES	SPOTS:TREES
SYLAMORE	19	3:6	1:25	7:625	30:625
MAGAZINE MT.	20	10:32	7:51	1:30	38:133
PART-BOSTON MT.	<u>16</u>	<u>5:13</u>	<u>4:51</u>	<u>1:40</u>	<u>26:120</u>
TOTALS	55	28:51	12:127	9:695	94:928

DEFOLIATION AND FIRE APPEAR SCATTERED ON THESE THREE
DISTRICTS; SPOTS ARE PLOTTED ON THE MAPS.

CONCLUSIONS

SINCE SEVEN SPOTS ON THE SYLAMORE RANGER DISTRICT
CONTAIN 2/3 OF THE AFFECTED TREES, THE SEVERITY OF THE DAMAGE
OBSERVED IS FAR LESS THAN THE TOTAL TREE COUNT WOULD INDICATE.

NO PATTERN OF DAMAGE WAS SEEN WHICH WOULD INDICATE
SIGNIFICANT ACTIVITY BY ANY SINGLE INSECT OR DISEASE CAUSAL
AGENT.

DURING THE TIME THAT FLIGHT IS MADE OVER THE MAIN
BODY OF THE FOREST A GROUND CHECK WILL BE MADE TO EVALUATE
THE CONDITION OF THE LARGE SPOTS ON THE SYLAMORE RANGER
DISTRICT

FOR ANY ADDITIONAL INFORMATION, CONTACT:

FOREST INSECT AND DISEASE MANAGEMENT UNIT, S&PF
USFS - SOUTHEASTERN AREA

NORTHGATE OFFICE PARK
3620 INTERSTATE 85, N.E.
DORAVILLE, GA 30340
TELEPHONE: 404-221-4796

OR

2500 SHREVEPORT HIGHWAY
PINEVILLE, LA 71360
TELEPHONE: 318-445-6511



U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
EDWARD P. CLIFF, CHIEF

OZARK NATIONAL FOREST

BOSTON MOUNTAIN RANGER DISTRICT

ARKANSAS

FIFTH PRINCIPAL MERIDIAN

INDIAN MERIDIAN

1966

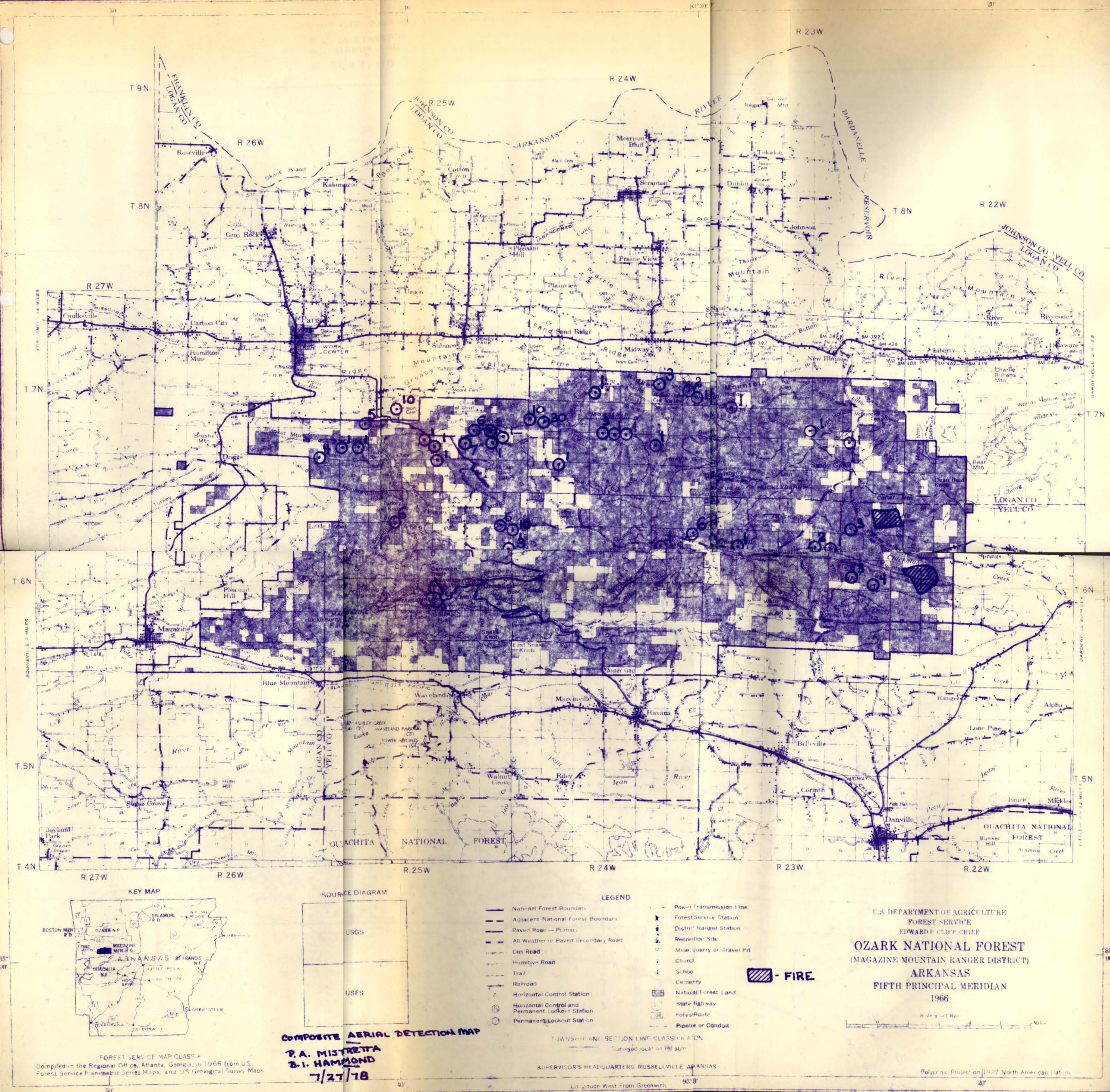
LEGEND

- National Forest Boundary
- Paved Road
- All Weather Road
- Dirt Road
- Primitive Road
- Trail
- Railroad
- Horizontal Control Station
- Horizontal Control and Permanent Lookout Station
- Permanent Lookout Station
- Church
- School
- House, Cabin or Other Building
- Cemetery
- Mine, Quarry or Gravel Pit
- Power Transmission Line
- National Forest Land
- U.S. Highway
- State Highway
- Forest Route
- District Ranger Station
- Forest Service Station
- Recreation Site

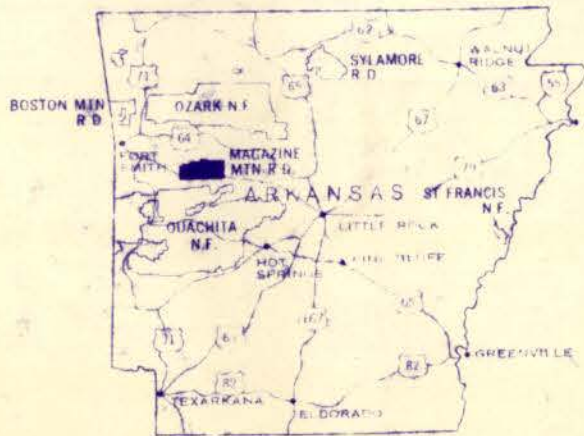
FOREST SUPERVISOR'S OFFICE AT RUSSELLVILLE, ARKANSAS
DISTRICT SUPERVISOR'S OFFICE AT VAN BUREN, ARKANSAS

COMPOSITE
AERIAL
DETECTION
MAP
R.A. MISTRETTA
B.E. HAMMOND
7/27/78

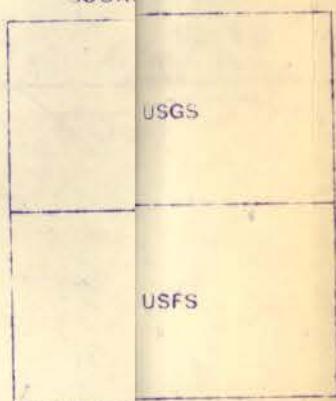
DEFOLIATION



KEY MAP



SOURCE DIAGRAM

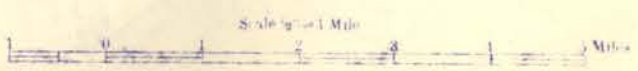


LEGEND

- National Forest Boundary
- Adjacent National Forest Boundary
- Paved Road - Primary
- All Weather or Paved Secondary Road
- Dirt Road
- Primitive Road
- Trail
- Railroad
- Horizontal Control Station
- Horizontal Control and Permanent Lookout Station
- Permanent Lookout Station
- Power Transmission Line
- Forest Service Station
- District Ranger Station
- Recreation Site
- Mine, Quarry or Gravel Pit
- Church
- Shoal
- Cemetery
- National Forest Land
- State highway
- Forest Route
- Pipeline or Conduit

- FIRE

U.S. DEPARTMENT OF AGRICULTURE
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OZARK NATIONAL FOREST
(MAGAZINE MOUNTAIN RANGER DISTRICT)
ARKANSAS
FIFTH PRINCIPAL MERIDIAN
1966

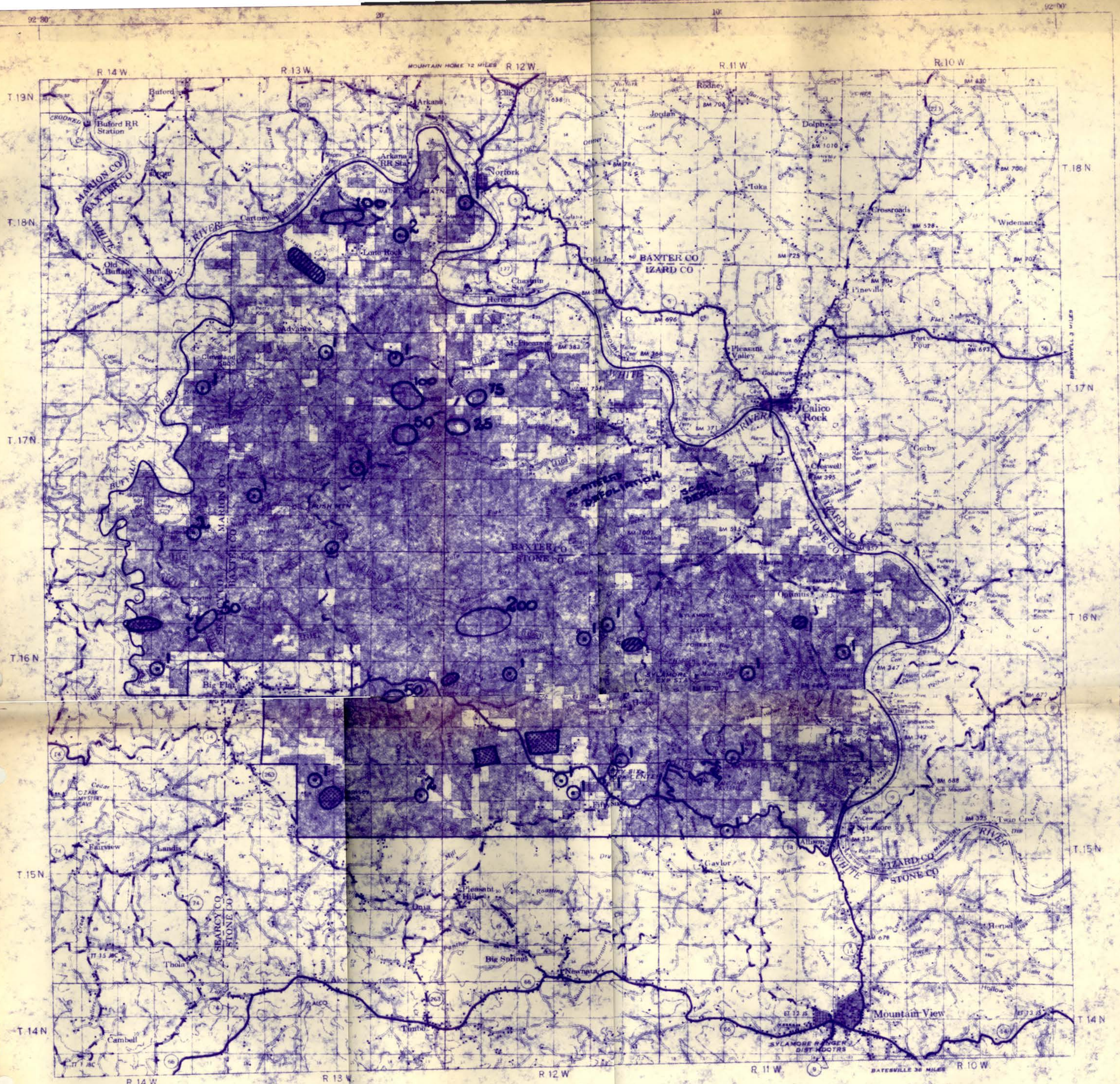


COMPOSITE AERIAL DETECTION MAP
P.A. MISTRETTA
B.I. HAMMOND
7/27/78

TOWNSHIP AND SECTION LINE CLASSIFICATION
Surveyed local on file
SUPERVISOR'S HEADQUARTERS: RUSSELLVILLE, ARKANSAS

Polyconic Projection 1927 North American Datum

FOREST SERVICE MAP CLASS A
Compiled in the Regional Office, Atlanta, Georgia, in 1966 from US
Forest Service Planimetric Series Maps, and US Geological Survey Maps



KEY MAP

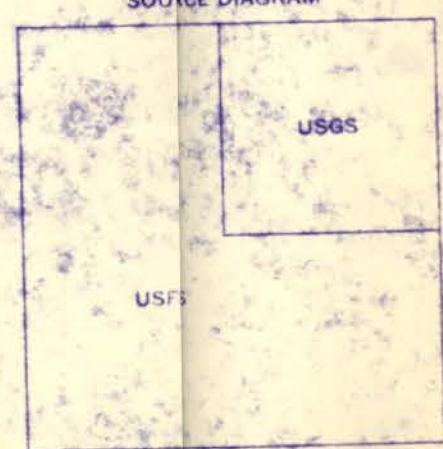
SOURCE DIAGRAM

LEGEND

U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
JOHN R. MCGUIRE, CHIEF

OZARK NATIONAL FOREST
(SYLAMORE RANGER DISTRICT)
ARKANSAS
FIFTH PRINCIPAL MERIDIAN
1967

Scale: 1" = 1 Mile



- National Forest Boundary
- Paved Road - Primary
- All Weather or Paved Secondary Road
- Dirt Road
- Primitive Road
- Trail
- Railroad
- △ Horizontal Control Station
- △ Horizontal Control and Permanent Lookout Station
- Permanent Lookout Station
- Forest Service Station
- △ District Ranger Station
- △ Recreation Site
- △ State Recreation Site
- × Mine, Quarry or Gravel Pit
- ⋈ Church
- ⋈ School
- ⋈ Cemetery
- National Forest Land
- ⦶ State Highway
- ⦶ Forest Route
- Power Transmission Line

TOWNSHIP AND SECTION LINE CLASSIFICATION
Surveyed location reliable

FIRE DEFOLIATION

FOREST SERVICE MAP CLASS A
Compiled in the Regional Office, Atlanta, Georgia, in 1967 from U.S. Forest Service Planimetric Series Maps, and U.S. Geological Survey Maps Revised in Regional Office 1972

COMPOSITE DETECTION MAP
P.A. MISTRETTA & B.I. HAMMOND
SERVISOR'S HEADQUARTERS, RUSSELLVILLE, ARKANSAS

7/27/78

Polyconic Projection 1927 North American Datum

Longitude West From Greenwich